

APPENDIX 2, CONT'D

Case Cal-3^a

This case, a 73.3-kg, 36-yr old Negro male, was diagnosed from biopsy as having an osteo-fibro myxochondrosarcoma involving the distal femur, patella and proximal tibia. He was injected 7/18/47 with 0.095 μCi $^{238}\text{Pu(VI)}$ nitrate intramuscularly at an ink-marked location on the gastrocnemius muscle. A mid-thigh amputation was performed four days p.i. Alive and well 7/17/68, 21 yr. p.i.

Samples	Wet wt. (g)	Ash wt. (g)	% of absorbed	% of absorbed
			dose	dose/g
Tumor	29.5	0.37	0.60	0.0203
Bone and tumor ^b	31.5	12.6	0.144	0.0046
Marrow	4.0	0.05	0.063	0.0158
Normal cortex	50.5	20.0	0.063	0.00124
Muscle from normal bone	27.5	0.345	0.025	0.0009
Injection site	69.5	0.87	46.6 ^c	

Whole femur reconstruction:

$$\frac{(\text{Bone} + \text{tumor}) + (\text{marrow}) + (\text{normal cortex})\%}{(\text{Bone} + \text{tumor}) + (\text{marrow}) + (\text{normal cortex})\text{g}} = 0.00313\%/g$$

a

unpublished.

^bPart of distal femur, patella, and proximal tibia.

^c% of administered dose.

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